




## POLYMER MEMBRANES ON THE BASIS OF POLYVINYLIDENE FLUORIDE, A PROCESS FOR THE PRODUCTION THEREOF AND THEIR USE

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**Inventor:** GROEBE ANNELIESE DR RER NAT (DE); CHMIEL HORST PROF DR ING (DE)  
**Applicant:** FRAUNHOFER GES FORSCHUNG (DE)  
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PCT No. PCT/DE90/00091 Sec. 371 Date Nov. 2, 1990 Sec. 102(e) Date Nov. 2, 1990 PCT Filed Feb. 12, 1990 PCT Pub. No. WO90/09232 PCT Pub. Date Aug. 23, 1990. The present invention relates to polymer membranes on the basis of polyvinylidene fluoride (PVDF), a process for the production thereof and their use for ultrafiltration. The membranes are produced according to known techniques from homogeneous solutions containing 5 to 30% by weight of PVDF and 0.01 to 30% by weight of sulfonic acids and/or their salts, obtainable by sulfonation of the polyetheretherketones of formula (I) and/or subsequent neutralization of the sulfonic acids. The membranes are then treated with methanolic solutions containing 0.1 to 5% by weight of the above-mentioned sulfonic acids and/or their salts. This process supplies membranes having excellent hydrophilic properties, high thermal and mechanical stabilities and high trans-membrane flows.  $\text{-(O-p-C}_6\text{H}_4\text{-O-p-C}_6\text{H}_4\text{-CO-p-C}_6\text{H}_4\text{-)}_n\text{-(I)}$

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